

# Dell Technologies Safety & Security Validation Matrix

H14530.14

May 2020

## Abstract

This document shows how we partner with leading Safety & Security providers to configure various Dell EMC arrays, clusters, and cloud storage offerings to easily implement onto a Dell EMC storage system.

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**Dell Technologies**

Safety & Security Lab

**Validated**

# Validation testing

Validation testing determines the performance baseline, including bandwidth specifications and failure and recovery scenarios, for Video Management Software (VMS) providers when using Dell EMC storage systems. Various test scenarios are performed that replicate typical production environment activities related to several different system component failures and normal break fix best practices.

You can use the results presented in this document to determine what specific version of the ISV software, Dell EMC storage platform, model numbers, and Dell EMC storage operating environment have been validated.

The Dell EMC Safety & Security Lab team conducts tests in collaboration with the respective ISVs to determine the validated results.

## Dell EMC arrays and clusters

Dell EMC storage arrays are ideal for storing video and audio data. Dell EMC offers the following storage options for video and audio data:

- Dell EMC Isilon
- Dell EMC Unity
- Dell EMC SC series
- Dell EMC ECS Object Storage

## Storage protocols

- NAS storage** Isilon storage cluster tests use SMB except where noted.
- SAN storage** Unity and SC series storage array tests use iSCSI and FC except where noted.
- ECS Object Storage** ECS object storage tests use S3.

## Functional testing

Functional testing differs from validation testing in that functional testing verifies that a VMS is compatible with Dell EMC storage systems. For video management applications the Functional test verifies compatibility for write, read, archive retention policies, and stable connectivity.

This type of testing does not include failure and recovery scenarios and performance benchmarking. Functional testing does not establish sizing guidelines but it may include the results from a single server baseline test.

## Current VMS Validations

Major safety and security vendors partner with the Dell EMC Safety & Security Lab to validate security applications with Dell EMC's portfolio of products and solutions.

- [VxRail and vSAN](#)
- [Mission critical](#)
- [Non-mission critical](#)
- [Previous generation validations](#)

- V-T1 (Validated Tier 1)** Indicates that the storage platform is fully validated as primary storage for the safety and security workload.
- V-T2 (Validated Tier 2)** Indicates that the storage platform is fully validated as a secondary storage for the safety and security workload.
- F-T1 (Functional Tier 1)** Indicates that the storage platform has been functionally verified for use as a primary storage platform but has not been fully validated.
- F-T2 (Functional Tier 2)** Indicates that the storage platform has been functionally verified for use as a secondary storage platform but has not been fully validated.

The following tables show the most current validations with the latest Dell EMC storage solutions.

# VxRail and vSAN

Dell Technologies Solution | Safety & Security installations that include VMware vSAN or VxRail integration.

**Table 1. Edge VMS Validation testing with vSAN and ECS**

VMS	vSAN	With ECS via GeoDrive
Genetec	PowerEdge R740xd	V-T1, V-T2
Milestone	PowerEdge R740xd	V-T1, V-T2

**Table 2. Edge VMS Validation testing with vSAN, VxRail and Isilon**

VMS	vSAN	With Isilon
Genetec	VxRail	V-T1
Milestone	VxRail	V-T1
Verint	VxRail	V-T1

## Mission critical

Installations that include critical cameras where zero video frame loss is acceptable during storage recovery activities, such as disk rebuilds and controller outages that are required for maintenance upgrades or failures. Storage solutions include Isilon Gen 6, Unity, ECS Gen2 and Gen3, and PowerEdge Gen13 and Gen14.

**Table 3. VMS storage validation testing**

VMS	Isilon (NAS)	Unity (SAN)	ECS via GeoDrive	PowerEdge Storage
Airship	V-T1	—	—	—
Avigilon	V-T1, V-T2	—	—	—
FLIR	—	V-T1	—	—
Genetec	V-T1	V-T1	V-T1	V-T1
Godrej IQ Vision	V-T2	V-T1, V-T2	—	—
Honeywell	V-T1	—	—	—
ISS	V-T1	V-T1	—	—
Milestone	V-T2	V-T1, V-T2	V-T2	V-T1, V-T2
Panasonic	V-T1	—	—	—
Pelco	V-T1	—	—	—
Qognify VisionHub	V-T1	V-T1	—	V-T1
Qognify Cayuga	V-T1	—	F-T1	—
S-1 Corporation	V-T1	—	—	—
Synectics	V-T1	V-T1	—	—
Verint	V-T1	V-T1	V-T1	V-T1

## Non-mission critical

Installations that include noncritical cameras where some video frame loss is acceptable during storage recovery activities, such as disk rebuilds and controller outages that are required for maintenance upgrades or failures.

**NOTE:** For mission critical safety and security video applications, Dell EMC recommends Unity, Isilon, or ECS with GeoDrive.

**Table 4. VMS Validation testing with SC series and ME4**

VMS	SC	ME4
Genetec	V-T1	V-T1
Milestone	V-T2	V-T2

## Previous generation validations

Installations that include storage arrays that are end of life.

**Table 5. VMS Validation testing with Unity, ECS, and Isilon**

VMS	NAS storage	SAN storage	Object storage
	Isilon	VNX	ECS via GeoDrive
Aimetis	V-T1	V-T1	—
Bosch	—	V-T1	—
Digifort	—	V-T1	—
IndigoVision	V-T1	—	—
Infinova	V-T1	—	—
LENSEC	V-T1	—	F-T1

## Validated VMS partners

Validating partner safety and security solutions for hardware and software performance within the customer environment can be complex and time consuming. Dell EMC Safety & Security Labs are outfitted with leading technology from all major safety and security vendors, allowing us to validate all best-of-breed physical security applications with the Dell Technologies portfolio of products and solutions. These proven lab validations with key partners accompany extensive documentation to simplify deployment and reduce risk of video loss for our customers

## Aimetis Symphony

### SAN storage systems tested

The following table shows the Aimetis Symphony versions and SAN firmware versions that have been included in validation testing.

**Table 6. Aimetis Symphony and Dell EMC SAN storage system versions tested**

Version	Firmware	Tier	Array
6.12.3	OE5.32.000.5.x	1	VSS100 VNX5400

### NAS storage systems tested

The following table shows the Aimetis Symphony versions and NAS releases that have been included in validation testing.

**Table 7. Aimetis Symphony and Dell EMC NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
6.14.5.1	8.0.0.1	2	X410

**Table 7. Aimetis Symphony and Dell EMC NAS storage system versions tested (continued)**

Version	OneFS release	Tier	Cluster
6.12.3	7.1.0.0	2	NL400 X410

## Airship Digital Video Recording System

### NAS storage systems tested

The following table shows the Airship Digital Video Recording System versions and NAS releases that have been included in validation testing.

**Table 8. Airship Digital Video Recording System and Dell EMC Isilon storage system versions tested**

Version	OneFS release	Tier	Cluster
5.4.1.290	8.1.1.1	1	A2000

## Avigilon Control Center System

### NAS storage systems tested

The following table shows the Avigilon Control Center System versions and NAS releases that have been included in validation testing.

**Table 9. Avigilon Control Center System and Dell EMC NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
6.14.8.26	8.1.2	1	H400 A2000
6.12	8.1.1.1	2	H400
6.10	8.0.1.2	1	X410
6.8	8.0.1.2	1	X410
5.8.2.14	8.0.0.2	1	NL410 HD400

## Bosch Video Recording Manager

### SAN storage systems tested

The following table shows the Bosch Video Recording Manager versions and SAN firmware versions that have been included in validation testing.

**Table 10. Bosch Video Recording Manager and Dell EMC SAN storage system versions tested**

Version	Firmware	Tier	Array
3.0.0073	OE5.32.000.5.x	1	VNX5300 VSS100 VNXe3200

# Digifort Enterprise

## SAN storage systems tested

The following table shows the Digifort Enterprise versions and SAN firmware versions that have been included in validation testing.

**Table 11. Digifort Enterprise and Dell EMC SAN storage system versions tested**

Version	Firmware	Tier	Array
7.1.0.0	OE5.32.000.5.x	1	VNXe1600 VSS1600

# FLIR Latitude

## SAN storage systems tested

The following table shows the FLIR Latitude versions and SAN firmware versions that have been included in validation testing.

**Table 12. FLIR Latitude and Dell EMC SAN storage system versions tested**

Version	Firmware	Tier	Array
8.0.X.61XX	4.5.0.0.5.096	1	Unity 500
6.2	OE5.32.000.5.x	1	VNX

# Genetec Security Center

## SAN storage systems tested - mission critical

The following table shows the Genetec Security Center and SAN firmware versions with mission critical storage arrays that have been included in validation testing.

**Table 13. Genetec Security Center and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
5.7	4.3.1.1525703027 4.2.3.9670635 4.2.1.9535982 R7.02.30.021.01 7.2.30.21 7.2.31.3 GT275R005-04	1	Unity300 Unity500 Unity600
5.6	4.2.0.9392909	1	VNX
5.4	OE5.32.000.5.x OE5.33.000.5.x	1	VNX
5.3	OE5.32.000.5.x OE5.33.000.5.x	1	VNX
5.2	OE5.32.000.5.x OE5.33.000.5.x	1	VNX

## SAN storage systems tested - nonmission critical

The following table shows the Genetec Security Center and SAN firmware versions with nonmission critical storage arrays that have been included in validation testing.

**Table 14. Genetec Security Center and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
5.7	4.3.1.1525703027 4.2.3.9670635 4.2.1.9535982 R7.02.30.021.01 7.2.30.21 7.2.31.3 GT275R005-04	1	SC5020 SCv3000 ME4012

## ECS Object Storage systems tested

The following table shows the Genetec Security Center versions and ECS releases that have been included in validation testing.

**Table 15. Genetec Security Center and Dell EMC storage system versions tested**

Version	ECS	GeoDrive	Cluster	vSAN host
5.7	3.2	1.2.2.1	ECS U400	E560
5.7	3.2	1.2.2.1	EX3000	R740xd

## NAS storage systems tested

The following table shows the Genetec Security Center and Isilon OneFS releases that have been included in validation testing.

**Table 16. Genetec Security Center and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
5.7	8.1 8.1.1	1	A2000 A200 HD400 NL410 H400
5.6	8.0.0.2	1	A2000
5.4	8.0	1	HD400 NL410
5.3	7.2.1	1	X410 NL410 HD400
5.2	7.2.0.0 7.2.0.1	1	X400 X410 NL400 HD400

## VxRail and vSAN

The following table shows the Genetec Security Center versions and vSAN releases that have been included in validation testing.

**Table 17. Genetec Security Center Edge validation testing with vSAN and ECS**

Version	vSAN server	vSAN version	ECS version	GeoDrive version	Tier
5.7	PowerEdge R740xd	6.7	3.2	1.2.2.1	1, 2

**Table 18. Genetec Security Center Edge validation testing with vSAN, VxRail, and Isilon**

Version	vSAN	VxRail	OneFS release	Tier
5.8	6.7 Update 3	E560	8.1.2	1

## PowerEdge servers tested

The following table shows the Genetec Security Center and server versions that have been included in validation testing.

Virtualization options (Virt):

- E - VMware ESXi
- B - Bare metal
- H - Microsoft Hypervisor

**Table 19. Genetec Security Center and Dell EMC servers tested**

Version	Server	Virt	Processor	Memory	Drives	RAID	RAID controller
5.8	R740xd2	E	Xeon Gold 5120	256 GB	26 X 7.4 TB	6	H730P
	R740xd2	E	Xeon Gold 5120	256 GB	26 X 7.4 TB	6	H730P
5.7	R740xd2	E	Xeon Gold 5120	256 GB	26 X 7.4 TB	6	H730P
	R740	E	Xeon Gold 6126	128 GB	18 X 10 TB	6	H740P
	R540	E	Xeon Gold 6126	96 GB	12 X 10 TB	6	H740P
5.6	R730xd	E	Xeon E5-2650 V4	256 GB	16 x 10 TB	10	H730P
		E	Xeon E5-2650 V4	256 GB	8 x 4 TB	5	H730P
	R630	E	Xeon E5-2650 V4	256 GB	5 x 1 TB	6	H730P
	R430	E	Xeon E5-2650 V4	256 GB	1 x 400 GB SSD	1	H730P
	R740xd	E	Xeon Gold 6126	256 GB	14X10 TB	6	H730P
	FD332	E	—	256 GB	14X1.2 TB	6	
	FC640	E	Xeon Gold 6126	256 GB	—	6	H730P

## Godrej IQ Vision Ultimate

### SAN storage systems tested

The following table shows the Godrej IQ Vision Ultimate and SAN firmware versions that have been included in validation testing.

**Table 20. Godrej IQ Vision Ultimate and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
2016	4.2.0.9392909	1, 2	Unity300
2014	3.1.3.5754151 OE5.32.000.5.x OE5.33.000.5.x	1, 2	VNX



# Honeywell DVM

## SAN storage systems tested

The following table shows the Honeywell DVM and SAN firmware versions that have been included in validation testing.

**Table 21. Honeywell DVM and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
5.7	4.4.1.1539309879	1	Unity500

## NAS storage systems tested

The following table shows the Honeywell DVM versions and Isilon OneFS releases that have been included in validation testing.

**Table 22. Honeywell DVM and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
700.1	8.1.1.1	1	H400
600.1	7.2.1	1	HD400 NL410 X410

# IndigoVision Control Center

## NAS storage systems tested

The following table shows the IndigoVision Control Center versions and NAS releases that have been included in validation testing.

**Table 23. IndigoVision Control Center and Dell EMC NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
13.1	7.2.x	1	NL410 HD400

# Infinova 2217 Security Management System

## NAS storage systems tested

The following table shows the Infinova 2217 Security Management System versions and NAS releases that have been included in validation testing.

**Table 24. Infinova 2217 Security Management System and Dell EMC NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
V17.02.09.08	8.0.1.1	1	HD400

# ISS SecurOS

## SAN storage systems tested

The following table shows the ISS SecurOS and SAN firmware versions that have been included in validation testing.

**Table 25. ISS SecurOS and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
8.3	OE5.31.000.5.x OE5.32.000.5.x OE5.33.000.5.x	1	Unity500

## NAS storage systems tested

The following table shows the ISS SecurOS and Isilon OneFS releases that have been included in validation testing.

**Table 26. ISS SecurOS and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
8.3	7.2.0.0	1	H400

# LENSEC Perspective VMS

## NAS storage systems tested

The following table shows the LENSEC Perspective VMS versions and NAS releases that have been included in validation testing.

**Table 27. LENSEC Perspective VMS and Dell EMC NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
2.3.0.1	7.2.1	1	X410 NL410 HD400

# Leonardo SC2

## PowerEdge servers tested

The following table shows the Leonardo SC2 and server versions that have been included in Validation testing.

Virtualization options (Virt):

- E - VMware ESXi
- B - Bare metal
- H - Microsoft Hypervisor

**Table 28. Leonardo SC2 and Dell EMC servers tested**

Version	Server	Virt	Processor	Memory	Drives	RAID	RAID controller
2.5.3	R740xd	E	Xeon Gold 6126	256 GB	18 x 10 TB	6 (12+1)	H740P
	R540	E	Xeon Gold 6126	256 GB	12 x 10 TB	6	H740P

# Milestone XProtect

## SAN storage systems tested - mission critical

The following table shows the Milestone XProtect and SAN firmware versions with mission critical storage arrays that have been included in validation testing.

**Table 29. Milestone XProtect and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
2018	4.3.1.1525703027 4.2.3.9670635 7.2.30.21	1, 2	Unity300 Unity500
2017	4.2.0.9392909	1, 2	VNX 5600
2016	3.1.2.5754151	1, 2	VNX 5600
2014	3.0.1.4029529 3.1.3.5754151 OE5.32.000.5.x OE5.33.000.5.x	1, 2	VNX 5600
2013 R2	3.0.1.4029529 OE5.32.000.5.x OE5.33.000.5.x	1, 2	VNX 5600

## SAN storage systems tested - nonmission critical

The following table shows the Milestone XProtect and SAN firmware versions with nonmission critical storage arrays that have been included in validation testing.

**Table 30. Milestone XProtect and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
2019		2	ME4024
2018	R7.02.30.021.01	2	SC3000

## ECS Object Storage systems tested

The following table shows the Milestone XProtect versions and ECS releases that have been included in validation testing.

**Table 31. Milestone XProtect and Dell EMC storage system versions tested**

Version	ECS	GeoDrive	Array	vSAN host
2018	3.2	1.2.2.1	ECS U400	E560

## NAS storage systems tested

The following table shows the Milestone XProtect versions and Isilon OneFS releases that have been included in validation testing.

**Table 32. Milestone XProtect and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
2018	8.1.0	2	A200 H400
2017	8.0.1.1	2	A2000

**Table 32. Milestone XProtect and NAS storage system versions tested (continued)**

Version	OneFS release	Tier	Cluster
2016	8.0.0.2 8.0.1	2	A2000 H400
2014	7.0 7.1.1.1 7.2.0.1 7.2.1.0	2	X400 X410 NL400 HD400
2013 R2	7.0 7.1.1.1	2	X400 X410 NL400 HD400

## VxRail and vSAN

The following table shows the Milestone XProtect versions and vSAN releases that have been included in validation testing.

**Table 33. Milestone XProtect Edge validation testing with vSAN and ECS**

Version	vSAN server	vSAN version	ECS version	GeoDrive version	Tier
2018	PowerEdge R740xd	6.7	3.2	1.2.2.1	1, 2

**Table 34. Milestone XProtect Edge validation testing with vSAN, VxRail, and Isilon**

Version	vSAN	VxRail	OneFS release	Tier
2019	6.7 Update 3	P570	8.1.2	1

## Dell EMC servers tested

The following table shows the Milestone XProtect and server versions that have been included in validation testing.

Virtualization options (Virt):

- E - VMware ESXi
- B - Bare metal
- H - Microsoft Hypervisor

**Table 35. Milestone XProtect and Dell EMC servers tested**

Version	Server	Virt	Processor	Memory	Drives	RAID	RAID controller
2019	R740xd2	E, B	Intel Xeon Gold 5120	256 GB	22 X 10 TB	6	H730P
2018	R740xd2	E, B	Intel Xeon Gold 5120	256 GB	26 X 10 TB	6	H730P
	R540	B	Intel Xeon Silver 4114	96 GB	10 X 10 TB	6	H740P
	R740xd	E, B	Intel Xeon Gold 6126	128 GB	18 X 10 TB	6	H740P
2017	R730xd	E	Xeon E5-2650 V4	256 GB	16 x 10 TB	6	H730P
		E	Xeon E5-2650 V4	256 GB	16 x 4 TB	6	H730P
		E	Xeon E5-2650 V4	256 GB	8 x 4 TB	6	H730P
	R630	E	Xeon E5-2650 V4	256 GB	5 x 1 TB	6	H730P
	R530	E	Xeon E5-2650 V4	256 GB	6 x 6 TB	6	H730P
	R430	E	Xeon E5-2650 V4	256 GB	1 x 400 GB SSD	1	H730P

# Panasonic VideoInsight

## NAS storage systems tested

The following table shows the Panasonic VideoInsight versions and Isilon OneFS releases that have been included in validation testing.

**Table 36. Panasonic VideoInsight and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
7.1	8.0.1.2	1	HD400 NL410

# Pelco VideoXpert

## NAS storage systems tested

The following table shows the Pelco VideoXpert versions and Isilon OneFS releases that have been included in validation testing.

**Table 37. Pelco VideoXpert and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
3.6.0	8.1.2	1	A2000

# Qognify Cayuga

## NAS storage systems tested

The following table shows the Qognify Cayuga versions and Isilon OneFS releases that have been included in validation testing.

**Table 38. Qognify Cayuga and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
R13	8.1.1.1	1	A2000

# Qognify VisionHub

## SAN storage systems tested - mission critical

The following table shows the Qognify VisionHub and SAN firmware versions with mission critical storage arrays that have been included in validation testing.

**Table 39. Qognify VisionHub and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
4.4	4.2.1.9535982 7.2.30.21	1	Unity300
2.7up2	OE5.32.000.5.x OE5.33.000.5.x	1	VNX

## SAN storage systems tested - non-mission critical

The following table shows the Qognify VisionHub and SAN firmware versions with non-mission critical storage arrays that have been included in validation testing.

**Table 40. Qognify VisionHub and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
4.4	7.2.31.3	1	SC5020
4.2	7.2.30.21	1	SCv3020

## NAS storage systems tested

The following table shows the Qognify VisionHub versions and Isilon OneFS releases that have been included in validation testing.

**Table 41. Qognify VisionHub and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
4.4	8.1.1.1	1	A2000 H400
4.2	8.0.1.1	1	X410 NL410
3.1	7.2.1.1 8.0.0.2	1	HD400 NL410 X410
2.7up2	7.1.0.1 7.2.0.0	1	NL400

## Dell EMC servers tested

The following table shows the Qognify VisionHub and server versions that have been included in Validation testing.

Virtualization options (Virt):

- E - VMware ESXi
- B - Bare metal
- H - Microsoft Hypervisor

**Table 42. Qognify VisionHub and Dell EMC servers tested**

Version	Server	Virt	Processor	Memory	Drives	RAID	RAID controller
4.2	R730xd	—	Xeon E5-2650 V4	256 GB	16 x 4 TB	6	
		—	Xeon E5-2650 V4	256 GB	15 x 10 TB	6	
		—	Xeon E5-2650 V4	256 GB	14 x 10 TB	6	
	R530	—	Xeon E5-2650 V4	256 GB	6 x 6 TB	6	
	R430	—	Xeon E5-2650 V4	256 GB	1 x 400 GB SSD	1	

# S-1 Video Management Software (SVMS)

## NAS storage systems tested

The following table shows the SVMS versions and Isilon OneFS releases that have been included in validation testing.

**Table 43. SVMS and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
5.0.9.114	8.1.2 8.1.1.1	1	A2000 A200
2.65.0.0	8.0.1.2	1	NL410

# Synectics Digital Recording System

## SAN storage systems tested

The following table shows the Synectics Digital Recording System and SAN firmware versions that have been included in validation testing.

**Table 44. Synectics Digital Recording System and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
1.17.0.16	OE5.33.008.5.119	1	VNX

## NAS storage systems tested

The following table shows the Synectics Digital Recording System versions and Isilon OneFS releases that have been included in validation testing.

**Table 45. Synectics Digital Recording System and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
1.17.0.16	7.2.1	1	HD400 NL410

# Verint Nextiva

## SAN storage systems tested - mission critical

The following table shows the Verint Nextiva and SAN firmware versions with mission critical storage arrays that have been included in validation testing.

**Table 46. Verint Nextiva and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
7.5.1.7623	4.2.1.9535982	1	Unity300
6.4.3.2811	4.2.0.9392909	1	VNX
6.4.1591	3.1.3.7141854	1	VNX

**Table 46. Verint Nextiva and SAN storage system versions tested (continued)**

Version	SAN firmware	Tier	Array
6.4	OE5.32.000.5.x OE5.33.000.5.x	1	VNX

## SAN storage systems tested - nonmission critical

The following table shows the Verint Nextiva and SAN firmware versions with nonmission critical storage arrays that have been included in validation testing.

**Table 47. Verint Nextiva and SAN storage system versions tested**

Version	SAN firmware	Tier	Array
5.7	4.3.1.1525703027 4.2.3.9670635 4.2.1.9535982 R7.02.30.021.01 7.2.30.21 7.2.31.3 GT275R005-04	1	SC5020 SCv3000 ME4012

## ECS Object Storage systems tested

The following table shows the Verint Nextiva versions and ECS releases that have been included in validation testing.

**Table 48. Verint Nextiva and Dell EMC storage system versions tested**

Version	ECS	GeoDrive	Array	vSAN host
7.5.1.7623	3.2	1.2.2.1	ECS U400	E560

## NAS storage systems tested

The following table shows the Verint Nextiva versions and Isilon OneFS releases that have been included in validation testing.

**Table 49. Verint Nextiva and NAS storage system versions tested**

Version	OneFS release	Tier	Cluster
7.5.1.7623	8.1.1.1 8.1.0.2	1	H400 A2000
6.4.3.2811	8.0.0.2	1	HD400
6.4.1591	7.2.1.1	1	HD400 NL410
6.4	7.1.1.1 7.1.0.0	1	NL400

## VxRail and vSAN

The following table shows the Verint Nextiva versions and vSAN releases that have been included in validation testing.

**Table 50. Verint Nextiva Edge validation testing with vSAN, VxRail, and Isilon**

Version	vSAN	VxRail	OneFS release	Tier
7.6.0.747	6.7 Update 3	E560	8.1.2	1



## Dell EMC servers tested

The following table shows the Verint Nextiva and server versions that have been included in validation testing.

**Table 51. Verint Nextiva and Dell EMC servers tested**

Version	Server	Virt	Processor	Memory	Drives	RAID	RAID controller
6.4.3.2811	R730xd	E	Xeon E5-2650 V4	256 GB	16 x 4 TB	6	H730P
	R630	E	Xeon E5-2650 V4	256 GB	14 x 10 TB	6	H730P

Virtualization options (Virt):

- E - VMware ESXi
- B - Bare metal
- H - Microsoft Hypervisor

## Body-worn and VMS verifications

The following table shows the VMS and Body camera providers that have partnered with Dell EMC for Functional testing.

**Table 52. Functional testing**

Partner	Verification Test type	Isilon	SAN	ECS
Axon Commander	Body Camera	X	X	—
Dallmeier	VMS	—	X	—
DutyVue	Body Camera	X	X	X
Edesix	Body Camera	X	X	X
IndigoVisionFL	Body Camera	X	X	X
LenSec	VMS	X	—	—
NUUO	VMS	—	X	—
Reveal	Body Camera	X	X	X
VIEVU	Body Camera	X	X	X

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.